The quality of electric power ...

S/105/62/000/010/001/002 E194/E484

when the daily load curve displays marked seasonal variations is explained. It is concluded that further work on the assessment of power quality is required using statistical criteria of quality. The work should be commenced at once in view of the forthcoming issue of "Guidance on Voltage Control". The appropriate design organizations should publish temporary guidance on the procedure to be adopted in checking the voltage variations of systems. There are 3 figures and 1 table.

SUBMITTED: May 19, 1962

Card 2/2

BELIKOV, V.A.; BESSIERTNYY, I.S.; GLAZUNOV, A.A.; IOKHVIDOV, E.S.; KOZLOV, V.A.; KUZNETSOV, K.S.; MIRER, G.V.; SOLDATKINA, L.A.; FEDOSENKO, R.Ya.

"Fundamental problems concerning the design of municipal electric power distribution networks" by B.L. Aizenberg and S.N. Nikogosov. Reviewed by V.A. Belikov and others. Elektrichestve no.7:93-94 Jl 162. (NINA 15:7)

1. Moskovskiy inzhenerno-ekenomicheskiy institut imeni
S. Ordzhonikidze (for Belikov). 2. Giprekommunenergo (for
Bessmertnyy). 3. Moskovskiy energeticheskiy institut (for Glazunov,
Soldatkina). 4. Moskovskoye rayonnoye upravleniye energeticheskogo
khozyaystva (for Iokhvidov). 5. Leningradskaya kabel'naya set'
Leningradskogo upravleniya energokhozyaystvom Glavenergo
Ministerstva elektrostantsiy SSSR (for Kozlov). 6. Mosinzhproyekt
(for Kuznetsov). 7. Upravleniye po proyektirovaniyu zhilishchnograzhdanskogo 1 kommunal'nogo stroitel'stva g. Moskvy (for Mirer).
8. Akademiya kommunal'nogo khozyaystva im. K.D. Pamfilova (for
Fedosenko).

(Electric power distribution)
(Aizenberg, B.L.) (Nikogosov, S.N.)

BESSMERTNYY, Isaak Semenovich; VORONTSOV, F.F., red.; TIKHONOVA, 1.A., red. izd-va; SALAZKOV, N.P., tekhn. red.

[Schematics of municipal electric power distribution networks] Skhemy gorodskikh elektricheskikh setei; posobie dlia proektirovaniia gorodskikh elektricheskikh setei pri ikh avtomatizatsii. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 202 p. (MIRA 16:10)

(Electric networks) (Electric power distribution)

BESSMERTNYY, I.S., kand.tekhn.nauk; SHIFRINSON, B.L., kand.tekhn.nauk; TUSHINA, A.A., inzh.; Prinimali uchastiye: GOGICHAISHVILI, P.F., kand.tekhn.nauk; MAKARISHCHEV, A.S., inzh. [deceased]

[Installation and adjustment of an experimental section of a closed-loop low-voltage power distribution network] Ustroistvo i naladka opytnogo uchastka zamknutoi elektroseti nizkogo napriazheniia.
[Leningrad] 1962. 26 p. (Informatsionnoe pis'mo, no.3). (MIRA 16:8)

. Glavnyy inzh. Podol'skogo otdeleniya Moskovskogo oblastnogo upravleniya elektrostantsiy i elektrosetey (for Makarishchev). (Electric power distribution)

## BESSMERTNYY, 1.S.

Design of municipal electrical networks taking into account the growth of consumer loads. Trudy IEEE no.41:45-51 '62. (MERA 17:6)

1. Gosuderstvennvy respublikanskiy proyektnyy institut Ministeratva kommunalinego khozysystva RSFSR.

BESSMERTNYY, I.S., kand. tekhn. nauk

Use of 6-10-20 kv. potentials in municipal power networks. Elektrichestvo no.7:16-22 Jl '65. (MIRA 18:7)

1. Gosudarstvennyy respublikanskiy proyektnyy institut Ministerstva kommunal'nogo khozyaystva RSFSR (Giprokommunenergo).

SEMENIDO, Ye.G., prof., doktor tekhm. nauk; ENGLIN, B.A.; PAPOK, K.K., prof. doktor tekhm. nauk; ZARUBIN, A.P.; RAGOZIN, N.A.; SHIMONAYEV; S.; CHERTKOV, Ya.B.; LIVSHITS, S.M.; BESSMERTNYY, K.I.; LOSIKOV, B.V.; SABLINA, Z.A.; ROZHKOV, I.V.; GUREYEV, A.A.; FAT'YANOV, A.D.; ZRELOV, V.N.; ZARUDNYY, P.P.; BRATKOV, A.A.; BARON, I.G.; LEVINA, Ye.S., ved. red.; TITSKAYA, B.F., ved. red.; FEDOTOVA, I.G., tekhm. red.

[Motor, jet, and rocket fuels] Motornye, reaktivnye i raketnye topliva. 4., perer. i dop. izd. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1962. 741 p.

(MIRA 15:2)

(Rockets (Aeronautics))—Fuel)
(Jet propulsion)
(Motor fuels)

15.6500

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11.9400

Sinitsyn, V.V., Aleyeva, Ye.V., Bessmertnyy, K.I.,

Popova, Ye.P., Shmidt, A.A.

TITLE:

AUTHORS:

Influence of fractional composition of synthetic fatty

acids on thermal stability and practical

characteristics of sodium greases

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.2, 1962, 53-59

To explain differences in performance (gelation at 80 to 120°C) between greases thickened with sodium soaps of natural fatty acids (C16-C18) which are satisfactory and synthetic acids (fractions  $C_{10}-C_{16}$  and  $C_{12}-C_{20}$ ) which are not satisfactory, the latter were analysed by gas-chromatography. were vacuum distilled into 5 fractions, the fractions having the following composition: top fraction: C11-C15, 3.1%; 1)  $c_{13} - c_{17}$ , 3%; 2)  $c_{15} - c_{19}$ , 14%; 3)  $c_{16} - c_{20}$ , 4)  $c_{17} - c_{21}$ , 16.8%; 5)  $c_{18} - c_{22}$ , 9.3%; residue, 40% . Greases were prepared from each of the fractions and their mixtures saponified with NaOH in oil MK-8. It was found that the fractions 1 to 4 gave greases which had similar satisfactory thermal properties to the greases prepared from natural stearic acid.

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Influence of fractional ...

fraction 5 gave greases that gelled at a lower temperature. behaviour was similar to that exhibited by the greases prepared from the original synthetic acids. Also admixture of fraction 5. or the residue fraction, to the other fractions caused gelation to occur at a lower temperature than that characterizing the greases prepared from fractions 1 to 4. The authors conclude that some components present in fraction 5 and the residue cause the gelation to occur. Comparing the properties of the greases, it was evident that the heavier fractions have higher thickening action than the light fractions. With the increase in the mean molecular weight of the acids the consistency of the greases increases and oil separation decreases; the latter property is equivalent to an improved colloidal dispersion of the soap, Other improvements include viscosity-temperature characteristics and mechanical stability. It is concluded that the gelation of the greases is not connected with the presence in the fractions of the high molecular weight acids but with the unsaponifiable components of the residual fraction, some of which may be exidation by-products. When the residual fraction is removed, the remaining Card 2/3

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Influence of fractional ...

s/065/62/000/002/003/004

acids give generally better sodium greases than those prepared from carboxylic acids derived from animal and vegetable fats. The analysis of fractional composition of the synthetic fatty acids by gas-chromatography was carried out at NII SZhIMS by B,P,Kotel'nikov. There are 2 figures, 4 tables and 3 Soviet-bloc references.

Card 3/3

#### ACCESSION NR: AP4039795

S/0286/64/000/010/0045/0045

AUTHOR: Levitin, M. K.; Shekhter, Yu. N.; Kreyn, S. E.; Kalashnikov, V. P.; Bessmertny\*y, K. I.; Goryacheva, V. I.; Lyakhovich, R. S.; Rozvadovskaya, I. N.; Khoroshilova, L. D.; Dol'berg, A. L.; Sheremet, M. I.; Romanovskaya, A. A.; Vilenkin, A.

TITLE: Method for obtaining a corrosion inhibitor for lubricating oils. Class 23, No. 162616

SOURCE: Byul. izobr. i tovar. znakov, no. 10, 1964, 45

TOPIC TAGS: lubricating oil, corrosion inhibitor, mineral oil, nitration, neutralization, calcium oxide, promoters, alkylphenol, sulfonic acid, synthetic fatty acid, acatic acid

ABSTRACT: This Author Certificate introduces a method of obtaining a corrosion inhibitor for lubricating oils by the nitration of mineral oil with the subsequent neutralization of the latter with metal hydroxide. To enhance the effectiveness of the corrosion inhibitor, the nitrated oil is neutralized with calcium hydroxide

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in the presence of the following promoters: an alkylphenol, a synthetic fatty acid, a sulfonic acid, acetic acid.  ASSOCIATION: none  SUBMITTED: 23Aug63 DATE ACQ: 19Jun64 ENCL: 00  SUB CODE: FP NO REF SOV: 000 OTHER: 000	ACCE	ESSION	NR: AP	4039795							
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L 02193-67 EWT(m)/T DJ/JAJ ACC NR: AP6032091 (A) SOURCE CODE: UR/0256/66/000/009/0069/0070

AUTHOR: Vilenkin, A. V. (Engineer; Lieutenant Colonel; Candidate of technical sciences); Bessmertnyy, K. I. (Engineer; Lieutenant Colonel); Korolev, V. P. (Engineer; Major)

ORG: none

TITLE: Protective storage of machinery by lubricant additives

SOURCE: Vestnik protivovozdushnoy oborony, no. 9, 1966, 69-70

TOPIC TAGS: lubricant additive, lubricant viscosity, lubricating oil /AKOR-1 additive

ABSTRACT: The AKOR-1 additive is obtained by processing certain low viscosity oils with nitric acid, followed by neutralization with alkali to which stearin has been added. Adding 3—20% of AKOR-1 to any regular lubricating oil will keep machinery free from rust for two to three years. The following percentages are used, according to conditions: 3% for machinery stored in heated places, 5—6% if stored in unheated places, 10% if kept in the open air, and 15—20% if stored in subtropical or coastal areas. The maintenance costs per motorized vehicle are

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L 02193-67

ACC NR: AP6032091

reduced by 32 to 46 rubles for five years if AKOR is used. The characteristics of regular oils to which AKOR-1 has been added are described in detail in a pamphlet entitled "Inhibited oils and fuels" (Inhibirovannyye masla i topliva) published by the Central Scientific Research Institute for Technical Information and Economies (Tsentral'nyy nauchno-issledovatel'skiy institut tekhnickeskoy informatsii i ekonomii) of Neftegaz (Coal and gas) in 1964.

SUB CODE: 11, 13/ SUBM DATE: none/

card 2/2 egh

BUYANOV, Yuriy Dmitriyevich, kand. tekhn. nauk; AVERCHENKOV,
Anatoliy Pavlovich, gornyy inzh.; BESSMERTNYY, Konstantin
Sergeyevich, gornyy inzh.; AKSENOV, V.P., kand. tekhn.
nauk, retsenzent; BELYAKOV, Yu.I., kand. tekhn. nauk,
retsenzent; GEYMAN, L.M., red.izd-va; LAVRENT YEVA, L.G.,
tekhn. red.

[Sand, gravel, crushed stone and clay quarries] Peschanograviinye, shchebenochnye i glinianye kar'ery. Moskva, Izdvo "Nedra," 1964. 358 p. (MIRA 17:3)

CHIKIN, A; YERMOLAYEV, I.; BESSMERTNYY, L.

News from schools. Prof.-tekh.obr. 19 no.1:32,3 of cover (MIRA 15:1)

l. Nachal'nik Poltavskogo oblastnogo upravleniya proftekhobrazovaniya.

(Vocational education)

HESSMERTNYY, Lipa Leybovich; STEPANOV, A.P., redaktor; MELENT YEV, A.M., tekhnicheskiy redaktor

[Tables for computing vacation pay and compensation for unused vacation time.] Tablitsy dlia nachisleniia oplaty za otpusk i kompensatsii za neispol'zovannyi otpusk. Dop.izd. Moskva, Gos. statisticheskoe izd-vo, 1955. 23 p. (MIRA 9:3) (Wages)

VAN FO FY, G.A. (Kiyev); BESSMERTNYY, M.I. (Kiyev)

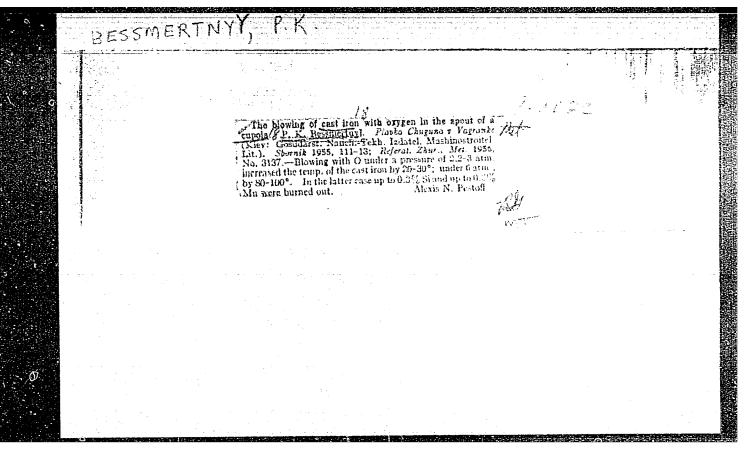
Vibrations of oval pipes in a compressible fluid flow. Prikl. mekh. 1 no.11:106-112 '65. (MIRA 19:1)

1. Institut mekhaniki AN UkrSSR. Submitted Jan. 20, 1965.

BESSMERTNYY, Petr Klimovich; KORNILOVA, M.I., redaktor; RAKOV, S.I., teknnicheskiy redaktor

[Innovations in an old shop] Novoe v starom taekhe. [Moskva] Izd-vo VTsSPS Profizdat, 1955. 83 p. (MIRA 9:1)

1. Starshiy master liteynogo tsekha Leningradskogo metallicheskogo zavoda imeni Stelina (for Bessmertnyy) (Metallurgy)



BESSMERTNYY, V.YO.

Studying the methods of tilling takyr soils brought under cultivation. Izv.AN Turk.SSR.Ser.biol.nauk no.5:44-51 '62. (MIKA 15:11)

1. Institut pustyn AN Turkmenskoy SSR.
(TEDZHEN VALLEY-TAKYR)
(TEDZHEN VALLEY-TILLAGE)

RESCHERTNYY, V.Ye.; BURDYGINA, V.S.; ZAKURDAYHVA, T.J.

Changes of some fertility elements in the takyrs under the effect of land improvement measures. Izv. AN Turk. SSR. Ser. biol. nauk no.1:29-33 \*64. (MIRA 17:9)

1. Turkmenskiy nauchno-issledovatel akiy institut zemledeliya.

RABOCHEV, I.S.; BESSMERTNYY, V.Ye.; EURDYOTEA, V.S.

Alkalinity in the takyrs after their desallowation for AN Turk. SSR. Ser. biol. nauk no. 5 13-22 (63. (114 19:10))

1. Turkmenskiy nauchno-issledayatellokiy institut nach activation.

BESSMERTNYY, V.Ye.

Characteristics of the basic hydrophysical properties of virgin and improved takyrs in the Tedzhen casis. Izv. AN Turk. SSR. Ser. biol. nauk no.5:23-29 '63. (MIRA 17:10)

1. Turkmenskiy nauchno-issledovatel'skiy institut zemledeliya.

BESSMERTNYY, V.Ye.; BURDYGINA, V.S.

Ash elements and the productivity of field crops. Izv. AN Turk. SSR. Ser. biol. nauk no.2:39-44 '65. (MIRA 18:5)

1. Turkmenskiy nauchno-issledovatel\*skiy institut zemledeliya.

# BESSMERTNYY, Ya. I., inzh. (Cherkassy)

Urgent problems in the operation of conscilidated transportation facilities. Zhel. dor. transp. 45 no.1:80-81 Ja '63. (MIRA 16:4)

(Railroads, Industrial) (Railroads—Joint use of facilities)

BESSMERTNYY, Yevgeniy Dmitriyevich, kapitan dal'nego plavaniya; MATYUSHIN, M., red.; FORMEBICH, M., tekhn.red.

[Manual for low-tonnage ship handlers] Posobie dlia sudovoditelei malomernykh sudov. Vladivostok, Primorskoe knizhnoe izd-vo. 1959.
428 p. (Ship handling)

BESSMERTNYY, Ye.D., kapitan dal'nego plavaniya; SPIRIDONOVA, A., red.; GUMBINA, S., tekhn. red.

[From experience in the handling of workboats] Iz opyta promyslovogo sudovozhdeniia. Vladivostok, Primorskoe knizhnoe izd-vo, 1959. 25 p. (MIRA 16:7) (Workboats-Handling)

BESSMERTNYY, Yevgeniy Dmitriyevich, nagrazhden ordenom Lenina, tremya ordenami Trudovogo Krasnogo Znameni i ordenom "Znak Pocheta"; LENTINA, M., red.; SHAYKOVA, N., tekhn. red.

[The years of my life; notes of an old seeman] Gody zhizni; zapiski starogo moriaka. Vladivostok, Primorskoe knizhnoe izd-vo, 1963. 229 p. (MIRA 16:12)

1. Deystvitel'nyy chlen Geograficheskogo obshchestva SSSR, chlen uchenogo soveta Primorskogo filiala Geograficheskogo obshchestva SSSR (for Bessmertnyy).

(Seafaring life) (Voyages and travels)

BESSMERTNYY, Ye.F.

Recording strain-gauge block. Izm. tekh. no.8:25-27 Ag '63.

(MIRA 16:10)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205120006-5"

BESSMERTNYY, Ye.F., in the motion of the retor of a motor with rolling type at increased frequencies. Elektrotekhnika 36 nc.8:47-49 Ag 165.

ENT(d)/EWP(1) Po-li/Pq-li/Pg-li/Pk-li/Pl-li IJP(c)L 52217-65

ACCESSION NR: AP5009792

UR/0292/65/000/004/0032/0034

621.313.13.13.3

AUTHOR: Naniy, V. P. (Candidate of technical sciences); Bessmertnyy, Ye. (Engineer)

TITLE: Higher-frequency motors with rolling rotor

SOURCE: Elektrotekhnika, no. 4, 1965, 32-34

TOPIC TAGS: servomotor, rolling rotor motor

ABSTRACT: An original design of a 400-1000-cps rolling-rotor servomotor is described in which the stator flux is split in each phase and the slot skewing exceeds one-half of the tooth pitch; an odd number of teeth is used. To avoid rotor-to-stator sticking (jamming), the rotor is designed as a thin-wall solid cylinder; a helical slot is cut in the rotor to reduce the eddy-current loss; this slot also helps in throwing out the metal dust, which is formed due to vibration, thus further ensuring against the rotor sticking. Operating characteristics are presented of a model motor at 83 rpm, 400 cps, 112 v 3-phase, 9 kg-cm shaft torque. Orig. art. has: 5 figures, 1 formula, and 1 table.

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BESSNYOI, I.

TECHNOLOGY

PERIODICAL: MELYEPITESTUDOMANYI SZEMLE. Vol. 8, no. 8/9, Aug./Sept. 1958

Bessnyoi, I. The new section of State Highway No. 7, between Balatonkeresztur and Nagykanizsa, p. 351.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

BESSOLITSYN, Ye P

3(5), 18(4)

PHASE I BOOK EXPLOITATION

SOV/1494

Akademiya nauk SSSR. Vostochno-Sibirskiy filial.

- Syr'yevyye resursy legkikh metallov Vostochnoy Sibiri, t. 1, ch. 1 i 2. (East Siberian Light Metal Resources, Vol 1, Pt 1 and 2) Moscow, Izd-vo AN SSSR, 1958. 152 p. (Series: Its: Trudy, vyp. 12) 1,500 copies printed.
- Editorial Board: Ye.P. Bessolitsyn, Doctor of Geological and Mineralogical Sciences; A.F. Li, Candidate of Technical Sciences; and Ye.I. Khazanov (Resp. Ed.); Ed. of Publishing House: V.K. Shlepov; Tech. Ed.: A.A. Kiseleva
- PURPOSE: This book is intended for geologists, as well as economists and planners of aluminum processing enterprises.
- COVERAGE: Sources of cheap electrical energy on the Angara and Yenisey Rivers provide the necessary power base for establishing a new industrial center in Eastern Siberta. Prospects are best for the creation of an aluminum industry provided adequate supplies of commercial ores (bauxite, nepheline, etc.) can be secured. These articles describe the results of studies made on aluminum ore deposits of this region, their geological nature and physicochemical properties by the SOPS (Council for the Study of Productive Resources), VAMI (All-Union Aluminum and Magnesium

Card 1/4

sov/1494 East Siberian Light Metal Resources (Cont.) Institute), the Irkutskiy institut redkikh metallov (Irkutsk Institute of Light Metals), and the Laboratoriya elektrometallurgii Vostochno-Sibirskogo filiala AN SSSR. Diagrams, tables, plates and bibliographic references accompany the articles. TABLES OF CONTENTS: 3 Foreword PART I Boksonskiye Deposits of Bauxite-Like Rocks and Their Utilization Khazanov, Ye.I. Problems in Matallurgical Processing of Light Metals of East 7 Siberia Potentialities of Bessolitsin , Ye. P. Results of Geological Exploration; 13 the Boksonskoye Deposit Li, A.F., and Ye.M. Bradinskaya. Mineralogical Characteristics of Boksonskoye 24 Ore Deposits Card 2/4

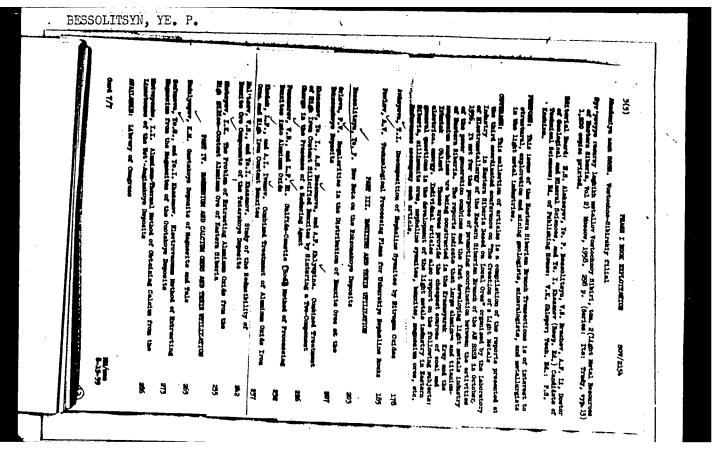
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# HESSOLITSYN, Ye.P.

New data on the Bokson deposit. Trudy Vost.-Sib. fil. AN SSSR no.13:203-206 '58. (MIRA 12:12)

1. Irkutskoye geologicheskoye upravleniye.
(Bokson region (Buryat-Mongolia)---Bauxite))



#### BESSOLITSYN, Ye.P.

Results of geological prospecting and Bokson deposit prospects. Trudy. Vost.-Sib.fil AN SSSR no.12:13-23 \*58. (MIRA 11:11)

1. Irkutskoye geologicheskoye upravleniye.
(Bokson Valley--Bauxite) (Prospecting)

NALETOV, Petr Ivanovich; BESSOLITSYN, Ye.P., geol. red.; ABKEVICH, P.L., red.izd-va; IVANOVA, A.G., tekhn. red.

[Stratigraphy of the central part of the Buryat A.S.S.R.] Stratigrafiia tsentral noi chasti Buriatskoi ASSR. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po geologii i okhrane nedr, 1961. 279 p. (MIRA 14:11)

(Buryat-Mongolia-Geology, Stratigraphic)

NALETOV, P.I.; BESSOLITSYN, Ye.P., red.; SHVYRYAYEV, Yu.T., red.izd-va; IYERUSALIMSKAYA, Ye.S., tekhn. red.

[Intrusive rocks in the central part of the Buryat A.S.S.R.] Intruzivnye gornye porody tsentral'noi chasti Buriatskoi ASSR. Moskva, Gosgeoltekhizdat, 1962. 149 p. (MIRA 16:1) (Buryat-Mongolia-Rocks, Igneous)

# BESSOLITSYN, Ye.P.

Ancient weathering surfaces in Irkutsk Province. Kora vyvetr. no.5:315-325 163. (MIRA 16:7)

1. Irkutskoye geologicheskoye upravleniye. (Irkutsk Province-Weathering)

BESSOLITSYN, Ye.P.; FAYNSHTEYN, G.Kh.

Some data on the weathering surfaces of the south of the Siberian Platform in the limits of Irkutsk Province. Kora vyvetr. no.6:226-230 '63. (MIRA 17:9)

1. Irkutskoye geologicheskoye upravleniye.

BELYAYEV, A.P., red.; BESSOLITSYN, Ye.P., red.; BLIKNIKOV, I.I., red.; DZINKAS, Yu.K., red.; ZHARKOV, E.A., red.; KOROVIN, A.V., red.; KURCYAHOV, F.K., red.; MANDEL'BAUM, M.M., red.; NALETOV, P.I., red.; RYABENKO, V.Ye., red.; SAVINSKIY, K.A., red.; SERD, A.I., red.; SEMENYUK, V.D., red.; TUMOL'SKIY, L.M., red.; TIKHONOV, V.L., red.; TROFIFUK, P.I., red.; TOMILOVSKAYA, H.V., red.; FOMIK, N.I., red.BEKMAN, Yu.K., ved. red.

[Recent data on the geology, petroleum potentials, and mineral resources of Irkutsk Province] Novye dannye po geologii, neftenosnosti i poleznym iskopaemym Irkutskoi oblasti. Moskva, Nedra, 1964. 278 p. (MIRA 17:8)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye geologii i okhrany nedr. Irkutskoye geologicheskoye upravleniye.

FEDOROV, K.F., gornyy inzh.; BESSOLITSYN, Yu.A., gornyy inzh.

New system of mining thick steeply dipping seams. Ugol' 37
no.2:9-12 F '62. (MIRA 15:2)

(Chelyabinsk Basin—Coal mines and mining)

BESSONENKO, A.V., inch.

Electrical field of the stray current of an electrified railroad in a two-layer media. Trudy OMIT 42:11-22 63.

Method for calculating the electrical field of stray current in a two-layer media. Tbip.:77-90 (MIRA 18:10)

HESSONOV, Aleksandr Andreyevich, kand. tekhn.nauk, dotsent

Integrating and differentiating devices using translators. Izv.vys.
uchab.zav.; elektromekh. 8 nc.8:854-862 165.

(MIRA 18:10)

l. Leningradskiy mekhanicheskiy institut.

BESSONENKO, V.V.; TSINKER, M.N. (Novo-Kuznetsk)

Initial experience in organizing the work of a therapy center for terminal states. Sov. zdrav. 21 no.5:67-68 '62. (MIRA 15:5)

l. Iz tsentra terapii terminal'nykh sostoyaniy pri kafedre travmatologii i ortopedii (zav. - prof. L.G.Shkol'nikov) Novo-Kuznetskogo gosudar-stvennogo instituta dlya usovershenstvovaniya vrachey (dir. - dotsent G.L.Starkov) i Gorodskoy stantsii skoroy meditsinskoy pomoshchi (glavnyy vrach M.N.TSinker).

(DEATH, APPARENT) (NOVOKUZNETSK--RESUSCITATION)

ģ.

BESSONNAYA, Yu.V.

Determination of urotropin dust in air. Gig. i san. 24 no.10:79-81 (MIRA 13:1)

(AIR POLLUTION)
(METHERAMINE chem.)

DENEV, S.I.; BESSONNIKOVA, N.V. Increasing the output of a crushing machine unit by raising the temperature of the pulp. Obog. rud 6 no.2:50-51 '61. (MIRA 14:8) (Crushing machines)

BESSONOV, A.A., kand.tekhn.nauk; BUKREYEV, Ye.M., kand.tekhn.nauk, nauchnyy red. BOTOVA, Yu.P., red.

[Sand sampler for rapid filters of water-supply systems] Proboot-bornik dlia peska na skorykh fil'trakh vodoprovodov. 1959. 8 p. (Akademiia kommunal'nogo khosiastva. Informatsionnoe pis'mo, no.4). (MIRA 14:1) (Water-Purification) (Filters and filtration)

Author: A. A. Prusonov

Lasuing Agency: Published by the State Printing House of Energetics

Cate: 1948

From List ATIC 17413-3

BESSONOV.	A.A.
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Electronic differentiating units operating alternating current. Nauch. dokl.vys.shkoly; elektromekh. i avtom. no.1:148-155 '59.

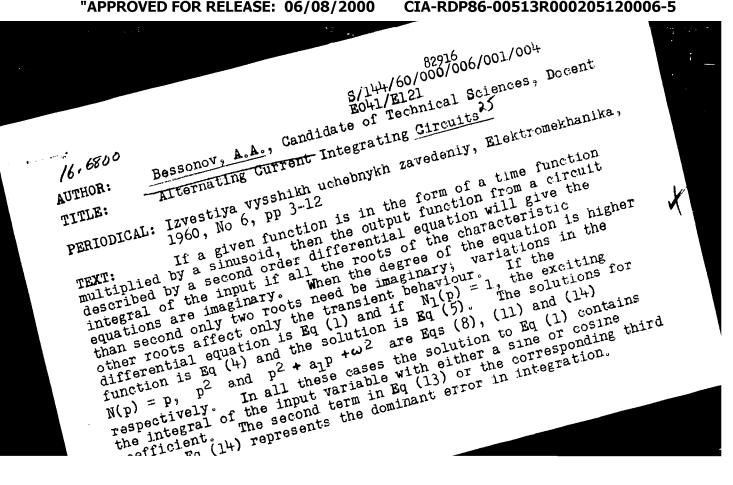
(MIRA 12:11)

1. Rekomendovana Leningradskim mekhanicheskim institutom.
(Electric measurements) (Electronic calculating machines)

BESSONOV, A.A.; STEPANOV, P.P.; GLOBIN, N.M.

Electronic devices for the automatic detection and counting of defects in yarn. Biul.tekh.-ekon.inform. no.5:44-45 60.

(Yarn-Testing) (Electronic instruments)



82916 S/144/60/000/006/001/004 B041/E121

Alternating Current Integrating Circuits

This term is expanded in Eq (15) whence it follows that the proportional error is 20 times smaller than the useful signal and the first difference is  $+\omega$  times smaller and so on. N(p) = p for example the error is negligibly small. integrator would correspond to the differential equation Eq (16) while the transfer function of a real system is Eq (17). integrator may be made by inverting the characteristic of a differentiating circuit as in Eqs (18) and (19). Unfortunately the output from such an arrangement also includes the excitation Starting from the 'idealized' differentiator for a.c. as itself. in Eq (22) a similar process yields a system free from this defect. The characteristic of Eq (18) and its 'idealization' can be realized with active RC circuits containing feedback. A resonant amplifier can operate as an integrator if the input and output carriers can be maintained in phase. Such an amplifier is described by Eq (28). For an applied unit function the response is Eq (33), the envelope increasing with a definite time constant like an ordinary delay circuit. If the input is a sinusoid (multiplying the carrier) the response is Eq (37) which manifests

Card 2/3

82916 \$/144/60/000/006/001/004 **E**041**/E**121

Alternating Current Integrating Circuits

a similar tendency as before. Fig 1 shows one form of circuit using a conventional parallel-T RC filter in a feedback path. If the condition  $1 - \beta \bar{k}_y = 0$  is observed in the closed-loop characteristic of Eq (40) the circuit behaves as an integrator. Fig 2 is a similar circuit with the RC filter rearranged. The effective response is that of the idealized integrator. The circuit which has been tried out experimentally is that of Fig 4 using the simple 'zero-phase-shift' coupling  $R_1C_1R_2C_2$ . Fig 5 shows a typical response where a 50 mV signal grows linearly to 44 V in 0.2 sec. The error is about 2.5%. A disadvantage of this type of circuit is the limited integration time. There are 5 figures and 4 Soviet references.

ASSOCIATION: Leningradskiy voyenno-mekhanicheskiy institut (Leningrad Military-Mechanics Institute)

SUBMITTED: February 10, 1960

Card 3/3

BESSONOV, A.A.; GLOBIN, N.M.

Electric measurement of the backlashes of kinematic lines. Izv.vys. ucheb.zav.; prib. 4 no.2:35-42 '61. (MIRA 14:5)

1. Leningradskiy ordena Krasnogo Znameni mekhanicheskiy institut. Rekomendovana Leningradskim mekhanicheskim institutom.
(Electronic instruments)

#### "APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205120006-5

S/119/62/000/007/005/006 1045/1245

AUTHOR:

Bessonov, A. A.

TITLE:

An electronic rotation controller

PERIODICAL: Priborostroyeniye, no. 7, 1962, 30

TEXT: Two rotation controllers are described. The first operates at 127 volts and 50 cps, consumes 2 watts and weighs 1.2 kg; the second operates at 24-27 volts dc, consumes 4 watts and weighs 0.6 kg. The rotation is transferred from the rotating body to the controller by a belt driving a disc with 8 holes around its circumfererence. The disc interupts a light beam impinging upon a photocell. The generated alternating current keeps a relay open. Any interprution of the controlled rotation stops the disc and interrupts the alternating photocurrent. The relay thereupon closes giving a signal for further processing. There are 2 figures.

Card 1/1

s/146/62/005/001/002/011 D201/D304

AUTHOR:

Bessonov, A.A.

TITLE:

An electronic instrument for detecting and counting thread

defects

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,

v. 5, no. 1, 1962, 9-15

TEXT: This is a description of the operation of an instrument based on transformation of a light beam -- in which the analyzed thread is being moved -- into electric signals which control an electromechanical counter. The position of the thread in front of the diaphragm of the photo-sensitive element is rigidly fixed by means of four revolving rollers having directing grooves. The rollers secure the required tension of the thread and the grooves are tapered in such a way that the two together prevent any possible rotation of the thread, so that the counter cannot be wrongly operated by the thread ellipticity due to twisting. The illumination of the photo-element depends on the average diameter of the thread section

Card 1/2

S/146/62/005/001/002/011 D201/D304

An electronic instrument for ...

in front of the corresponding slot of the diaphragm; the length of this section is determined by the slot width which is adjusted according to the minimum dimensions of thread defects. The pulses of voltage due to irregularities in the thread have poor rising times and an amplitude discriminating amplifier is used to amplify the pulses; after amplification and shaping, the pulses trigger a blocking oscillator which in turn operates a standard M3C-54 (MES-54) counter. The device can register all thread defects exceeding a set level between 0.02 to 2 mm, the error in the dimensions and number of defect measurements does not exceed 2-3 per cent. There are 5 figures and 2 Soviet-bloc references.

ASSOCIATION: Leningradskiy ordena krasnogo znameni mekhanicheskiy insti-

tut (Leningrad Order of the Red Banner Mechanical Institute)

June 3, 1961 SUBMITTED:

Card 2/2

S/146/62/005/002/002/004 D201/D307

AUTHOR:

Bessonov, A.A.

TITLE:

A universal electronic level meter

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priboros-

troyeniye, v. 5, no. 2, 1962, 12 - 17

TEXT: The author gives a short analysis and description of a level meter which is actually a capacitative proximity switch. The sensing element is a high-gain triode amplifier, with LC circuits in the grid and anode and an additional anode-to-grid capacitance added to increase the feedback. The amplifier oscillates at HF. A capacitive probe at the end of a screened cable acts as a detuning element when brought near to any liquid, granulated, or powdered substance. The oscillations are fed into an amplifier with a diode shunting the grid leak resistor and thus biasing it heavily in the positive direction. The amplifier is thus normally conducting and the relay in its anode is conducting heavily. Any capacitative detuning stops oscillations,

Card 1/2

S/146/62/005/002/002/004 D201/D307

A universal electronic level meter

the amplifier is cut off by self-bias and the relay operates. Experiments have shown that the level meter may be used for any -- including corrosive -- fluids, powder and granulated substances. It operates satisfactorily at temperatures from - 10 to +  $50^{\circ}$ C and for the following level changes: 1) for fluids - less than  $\pm$  0.5 mm; 2) for powders - less than  $\pm$  1.5 mm; 3) for granulates - less than  $\pm$  5 mm. There are 4 figures and 2 references.

ASSOCIATION: Leningradskiy

Leningradskiy ordena Krasnogo Znameni mekhanicheskiy institut (Leningrad 'Order of the Red Banner' Mechani-

cal Institute)

SUBMITTED:

April 13, 1961

Card 2/2

IOV, A.	A	
Elec pt:	ctronic step-by-step optimalizing control system. Izv.vys.ucheb.sav.; b. 6 no.1:78-87 '63. (MIRA 16:2)	
1	Leningradskiy ordena Krasnogo Znameni mekhanicheskiy institut. (Electronic control)	
	•	

S/0271/63/000/012/A025/A025 ACCESSION NR: AR4014941

SOURCE: RZh. Avt., tel. i vy\*chisl. tekhnika, Abs. 12A159

AUTHOR: Bessonov, A. A.

TITLE: Computation of automatic control system reliability

CITED SOURCE: Sb. tr. Leningr. mekhan. in-ta, no. 22, 1961, 42-65

TOPIC TAGS: automatic control system reliability, reliability theory

TRANSLATION: The author studied the possibility of predicting the reliability of automatic control systems on the basis of the probabilistic evaluation of the correspondence of their functional properties to the requirements imposed on them. Two approaches to the problem are considered. The first is based on the determination of the multi-dimensional probability of the functional correspondence to each of the system indices. The second is based on the evaluation of correspondence to a single generalized functional which in the case of automatic control systems is identified with the concept of the transfer function. A method of computing the reliability of automatic control systems is suggested. It is based on the probability of exceeding the limits of tolerance of the operator functional of the

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	system. R	m. Recommendations on the practical use of the proposed method are included llustrated, four illustrations. Bibliography with nine titles. V.G.				
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S/0196/63/000/012/K001/K001

ACCESSION NR: AR4014630

SOURCE: RZh. Elektrotekhnika i energetika, Abs. 12K2

AUTHOR: Bessonov, A. A.

TITLE: Calculation of the reliability of automatic-control systems

CITED SOURCE: Sb. tr. Leningr. mekhan. in-ta, no. 22, 1961, 42-65

TOPIC TAGS: reliability calculation, automatic-control system

ABSTRACT: A very important problem of automatic control theory is the elaboration of quantitative criteria of the reliability of the systems, the methods for engineering calculation of it and experimental verification. The paper examines the possibilities of predicting the reliability of automatic control systems (ACS) based on a probability estimate of the correspondence between their functional properties and the demands made on them, makes a comparative evaluation of the approaches to a solution of this problem, proposes a method of calculating the approaches to a solution of this problem, proposes a method of calculating the reliability of systems and gives recommendations for its practical application. The method permits analysis of a system and its separate links, avoiding unwieldy and time-consuming computations based on multidimensional distributions

Card 1/2

ACCESSION NR: AR4014630

of random variables. It is sufficiently universal, simple and usable for engineer calculations of ACS reliability. Bibliography of 9 titles. D.Svecharnik

SUB CODE: IE

DATE ACQ: 24Jan64

ENCL: 00

Card 2/2

ACCESSION NR: AR4035555

S/0271/64/000/003/A028/A028

SOURCE: Ref. zh. Avtomat., telemekh. i vychisl. tekhn. Sv. t., Abs. 34179

AUTHOR: Bessonov, A. A.

TITLE: Accuracy of a noncorrelation method for calculating the probability of faultless operation of automatic-control systems

CITED SOURCE: Sb. tr. Leningr. mekhan. in-ta, no. 29, 1963, 19-35

TOPIC TAGS: automatic control, automatic control reliability, automatic control theory, faultless operation probability

TRANSLATION: A correlation method of predicting the reliability of an automatic control system is considered; the method is based on the determination of multivariate probability of realization of specified system characteristics. The results obtained by this method are compared with the results of calculation of the faultless-operation probability based on evaluation of correspondence between system characteristics and a specified generalized functional. The faultless-operation-probability-vs.-time curve can be obtained if the time functions of parameter tolerances for all system elements are known. Here, the correlation

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ACCESSION NR: AR4035555

between  $X_i$  and static  $\mathcal{E}_i$  parameters of the elements should satisfy these conditions: (1) The correlation function  $X = f(\mathcal{E})$  when the parameter  $\mathcal{E}$  varies in time; (2)the values X obey the normal law of distribution with any  $\mathcal{E}_i$ ; (3) the average values of X vary linearly with  $\mathcal{E}_i$  when  $\mathcal{E}_i$  is small; (4) the standard deviation of the  $\mathcal{E}_i$  parameter from the direct regression is a constant. Then, the distribution characteristics of X are given by:

 $\Delta \overline{X} = \rho_{X,\epsilon} \ \Delta \overline{\epsilon}; \ \sigma_X = \sqrt{\rho_{X,\epsilon}^2 \ \sigma_\epsilon^2 + \sigma_{X,\epsilon}^2} \ .$ 

where  $\sigma_{x}$  and  $\sigma_{z}$  are the standards of distributions X and  $\varepsilon$ ;  $\sigma_{x,\varepsilon}$  is the standard deviation of X from the direct regression of X on  $\varepsilon$ ;  $\rho_{x,\varepsilon}$  is the coefficient of regression of X on  $\varepsilon$ ;  $\Delta$  X and  $\Delta\varepsilon$  are the variations of the average values of X and  $\varepsilon$ . An example of calculations for a 6N1P tube is given. A faultless-operation probability is calculated for a typical automatic-controlsystem amplifier with 6N1P tubes, with a carrier-frequency gain of 2 x 10<sup>5</sup>, and its tolerance  $\pm$  30%. A comparison of the above result with the result of calculation by the method of generalized functional shows that the accuracy of the latter practically equals to that of the correlation method; the functional method also obviates the cumbersome calculations inherent to the correlation method;

Card 2/3

ACCESSION NR: AR4035555

the functional method also permits determining the reliability criteria when exhaustive information about the distribution characteristics of the plant is unavailable.

DATE ACQ: 17Apr64

SUB CODE: DP, IE

ENCL: 00

Card 3/3

ACCESSION NR: ARLO39365

5/0272/64/000/003/0073/0073

SOURCE: Ref. Zh. Metrol. i izmerit. tekhn. Otd. vy\*p., Abs. 3.32.483

AUTHOR: Bessonov, A. A.; Globin, N. M.

TITLE: Electronic pressure gauge

CITED SOURCE: Sb. tr. Leningr. mokhan. in-ta, no. 33, 1963, 87-90

TOPIC TAGS: pressure, measurement, electronic method

TRANSLATION: The described instrument consists of a tensiometric bridge and an amplifier-converter. The device performs reliably on a wide range of values and velocities connected with pressure. In order to increase the accuracy of measurements the gauge can be easily set to work on three ranges of prossure. As the measuring element, incorporated in the bridge network, is a filament of tensions—tric wire, which carries the electric signal, proportional to the measured pressure at every instant of time. The tensiometric elements are constructed from 0.05 mm constantan wire, each having the resistance of 200 chms. The tensiometric

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ACCESSION NR: AR4039365

system is connected to an electronic amplifier-converter, comprising a generator which supplies sinusoidal output signal, an amplifier of the signal from the measuring element, a cathode follower, inserted between the amplifier and output terminals for attaching a recording unit, and a blocking generator with delay and contactless relay to a thyratron TG3-0-1/1-3. A circuit diagram for the amplifierconverter is included. The error of the instrument does not exceed 2% of the max-

DATE ACQ: 22Apr64

SUB CODE: FC

Card 2/2

SAPOZHNIKOV, Rostislav Alekseyevich; BESSONOV, Aleksandr Andreyevich; SHOLOMITSKIY, Adrian Grigor'yevich; TEMNIKOV, F.Ye., prof., retsenzent; TIMOFEYEV, V.A., prof., retsenzent; SVECHINSKIY, V.B., retsenzent; IVANOV, A.Z., retsenzent; KHRUSTALEVA, N.I., red.

[Reliability of automatic control systems] Nadezhmost' avtomaticheskikh upravliaiushchikh sistem. Moskva, Vysshaia shkola, 1964. 263 p. (MIRA 17:12)

ACCESSION NR: AP4037464

S/0146/64/007/002/0058/0064

AUTHOR: Bessonov, A. A.; Sivakov, V. A.

Receiva t

TITLE: Automatic failure indicator for discrete systems

NOV 6 1934

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 2, 1964, 58-64

ation Division

TOPIC TAGS: automatic control, automatic control reliability, automatic control failure, automatic control failure indicator

ABSTRACT: The further development of the authors' failure indicator (Sb. trudov "Avtomaticheskoye upravleniye," wp. 4, no. 33, LMI, 1963) is reported. The same susprinciple as before, borrowed from G. V. Novotny (Electronica, 1962, no. 28), is used, but the "reference scheme" is replaced by a single trigger whose "weight" changes automatically, depending on the "weight" of the trigger being checked. The new indicator consists of essentially three parts: a reference trigger, a comparison device, and a recording device. The indicator can successfully operate at 20—30 kc or lower frequency. A second version of the indicator is also priefly described. Orig. art. has: 4 figures.

ACCESSION NR: AP4037464

ASSOCIATION: Leningradskiy mekhanicheskiy institut (Leningrad Mechanical

Institute)

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ACCESSION NR: AR4040018

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3

SOURCE: Ref. zh. Avtomat., telemekh. i vychiel. tekhn. Sv. t., Abs. 4413

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AUTHOR: Bessonov, A. A.; Sivakov, V. A.

TITLE: Automatic indicator of faulty elements in discrete systems

CITED SOURCE: Sb. tr. Leningr. mekhn. in-ta, no. 33, 1963, 53-59

TOPIC TAGS: fault finder, discrete device, malfunction

TRANSLATION: The indicator in question is intended for automatic detection of malfunctions in various transistorized trigger circuits. The indicator comprises three parts: a reference circuit, a comparison device, and a recording device. The reference circuit must be similar to that being tested (counter, register, etc.) but more stable. The reference circuit is based on a P402-transistorized trigger. The maximum clock frequency of the reference circuit is 150 kc. The clock frequency during the checking operation should not exceed 20-30 kc. Both the test and the reference circuits are started by the same clock generator. The initial state of both circuits is the same and is set by the clearing signal. From the instant of starting the circuit to the instant of stopping the clock generator,

Cord 1/2

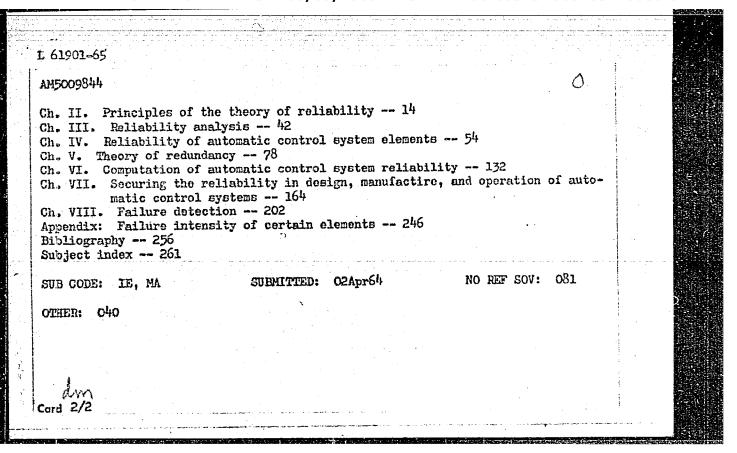
differ from the op- actually a coincid reference and the comparison device electric circuit d	test circuit with no malfunction of its elements, will not eration of the reference circuit. The comparison device is ence circuit. It receives simultaneously pulses from the test triggers. Upon a malfunction in the test circuit, the sends a pulse to the malfunction-counting circuit. A principal iagram is presented with the values of parameters indicated. been tested underlaboratory conditions. It has operated reliably ltago variation within \$200 and ambient temperature variation	
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BESSONOV, A.A.; SIVAKOV, V.A.

Device for automatic indication of failures to operate of discrete systems. Izv.vys.ucheb.zav.; prib. 7 nc.2:58-64 164. (MIRA 18:4)

1. Leningradskiy ordena Krasnogo Znameni mekhanicheskiy institut.

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Reliability of automobility of	matic control systems (Nadezhn Moscow, Izd-vo "Vysshaya shko les printed.	ost; avtomatiched la", 64. 0263 p.	skikh upravlyayu- illus., biblio.,	
PURPOSE AND COVERAGE cation to automatic design, manufacture to book is intended.	tic control system, reliability in the book discusses the the control systems. The materiate, and operation of various and for readers familiar with it in problems of reliability in	ery of reliabili al may be of ass ystems of automa principles of th	ty and its appli- istance in the tic control. The	
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Card 1/4

L 60453-65 UR/0000/64/000/000/0161/0167 ACCESSION NR: AT5017389 AUTHOR: Bessonov, A.A. (Leningrad) TITLE: A device for highly accurate measurements of small angular and linear displacements SOURCE: Konferentsiya po avtomaticheskomu kontrolyu, i metodam elektricheskikh izmereniy. 3d, Novosibirsk, 1961. Avtomaticheskiy kontrol' i metody elektricheskiki izmereniy; trudy konferentsii, t. 2: Tsifrovyye izmeritel'nyye pribory. Elektricheskiye izmereniya neelektricheskikh velichin. Ustroystva avtomaticheskogo kontrolya i upravleniya v promyshlennosti (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Digital measuring instruments. Electrical measurements of nonelectrical quantities. Devices for automatic control and regulation in industry). Novosibirsk, Redizdat Sib. otd. AN SSSR, 1964, 161-167 TOPIC TAGS: angular shift measurement, linear displacement measurement, kinematic play ABSTRACT: The measurement of the play of fine kinematic circuits illustrates the problem of the displacement angle of two axes. For such types of measurement, the author proposes the method of two rotating transformers (RT) located at the beginning

¥ 60453-65

ACCESSION NR: AT5017389

and at the end of the kinematic circuit under consideration (see Fig. 1 of the Enclosure). The article presents a comprehensive theoretical treatment of the problem and the electrical circuitry for the measurement of kinematic plays. It concludes with a brief description of an automatic device for accurate measurement of small displacements (e.g., the displacements of membranes of barometric tanks; see Fig. 2 of the Enclosure). Orig. art. has: 18 formulas and 6 figures.

ASSOCIATION: none

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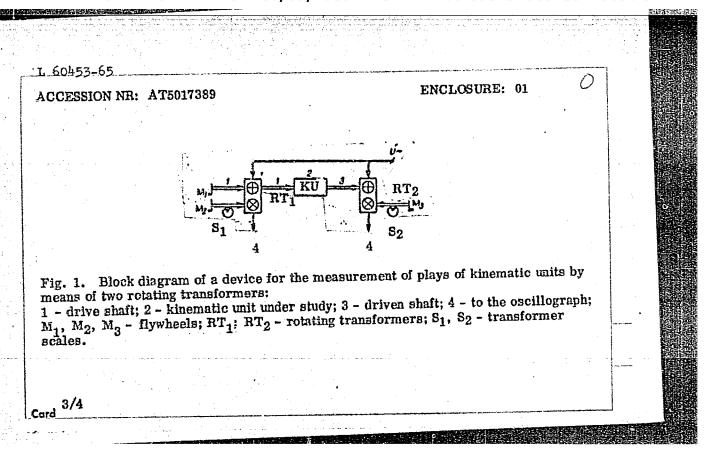
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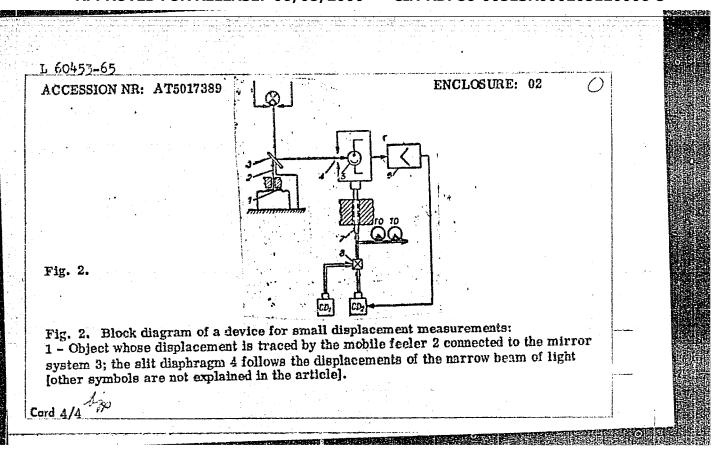
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BESSONOV, A.A.

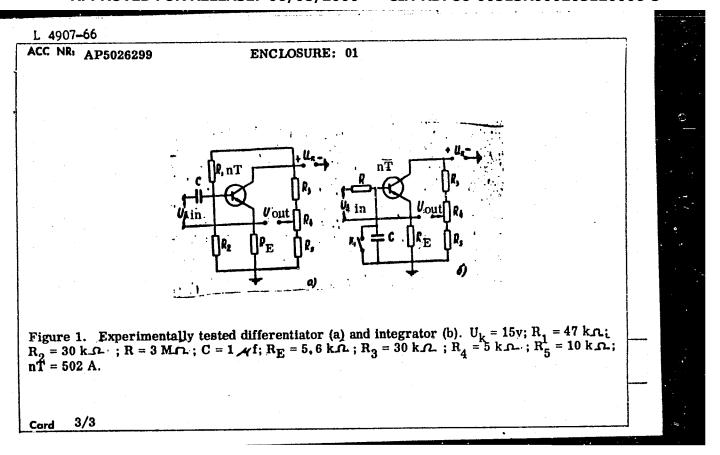
Introducing a device for testing the stands for the simulation of conveyors. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 no. 12:63-64 D '65 (MIRA 19:1)

IJP(c) BB/GG EWT(d)/EWP(1)L 4907-66 ACC NR: AP5026299 UR/0144/65/000/008/0854/0862 621. 382. 3+621. 3. 011. 1 (Candidate of technical sciences, Docent) AUTHOR: Bessonov. TITLE: Transistorized integrating and differentiating devices SOURCE: IVUZ. Elektromekhanika, no. 8, 1965, 854-862 TOPIC TAGS: differentiating circuit, integrated electronic device, transistorized circuit ABSTRACT: Electronic integrating and differentiating DC devices are usually based on passive RC circuits. However, in several cases it is advantageous to use active integrating and differentiating circuits containing amplifiers with positive coupling. After discussing the theoretical foundation of both approaches and stressing that transistorized integrating and differentiating devices (operating under emitter follower conditions) are particularly simple and reliable, the present author reports on experimental investigations of differentiator and integrator circuits shown in Fig. 1 of the Enclosure. In the case of the differentiator, the error for a linearly varying input signal did not exceed  $\delta U_{\text{output}} = 2.0\%$ . In the case of integrator with square wave functions at the input, the errors were again within 2.0% for integration intervals of 6 min. An even better accuracy could be obtained in both cases if the circuits were made of better quality components. Orig. art. has: 46 formulas and 8 figures. ASSOCIATION: Leningradskiy mekhanicheskiy institut (Leningrad Mechanical Institute)

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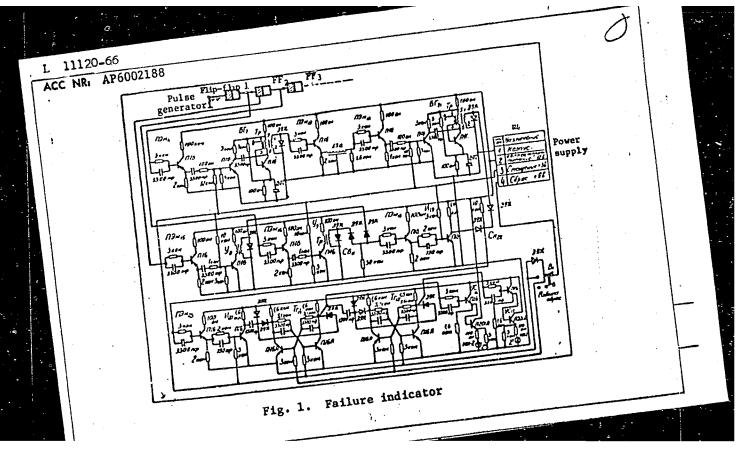
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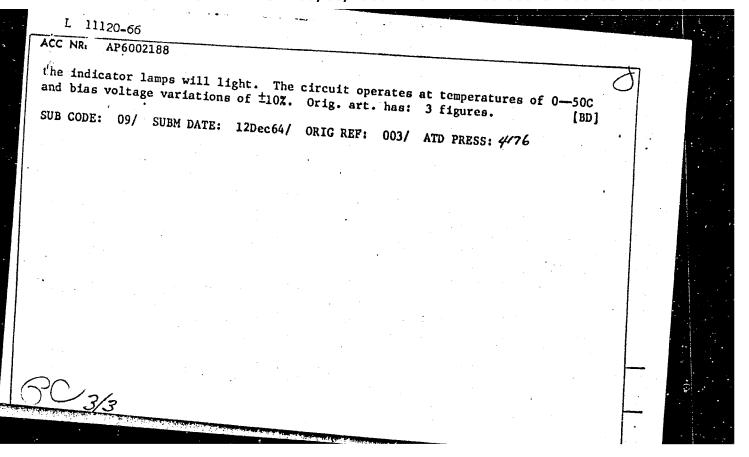
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Ill20-66 EWT(1)/EEC(k)-2/EWA(h)  NOUNCE CODE: UR/0146/65/008/006/0173/01/0  ACC NR: AF6002188  AUTHOR: Bessonov A. A.; Sivakov, V. A.  ORG: Leningrad Order of the Red Banner Institute of Mechanics (Leningradskiy Ordena Krasnogo znameni mekhanicheskiy institut)  Ordena Krasnogo znameni mekhanicheskiy institut)  TITLE: Simple failure indicator  TOPIC TAGS: test instrumentation, electronic test equipment, circuit failure,  computer technology, computer circuit  computer technology, computer for testing digital systems with clock used to the description of the figure shows how this device may be used to the 25-30 kc is reported. The figure shows how this device may flip-flops, pulse by performance of flip-flop no. 2 in a string of complementary flip-flops, pulse by a performance of flip-flop 1 triggers the generation of a 2-usec negative second not pulse oscillator. The pulse is delayed 3-4 usec and applied to a blocking oscillator. The two outputs of flip-flop 2 negative shows the AND gate to holocking oscillator. The two outputs of flip-flop 2 is malfunctioning inverted output; and from there an inverted signal of 10 usec the AND sate inverted signal. The AND gate output is again inverted and applied to a string of the inverted signal. The AND gate output is again inverted and after the inverted signal. The AND gate output is after the inverted signal. The AND gate output is a two-stage binary counter with indicator lamps. If flip-flop 2 is malfunctioning a two-stage binary counter with indicator lamps.

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L 25516-66 EWT(d)/EWP(1) IJP(c) GG/BB

ACC NR: AR6008998

SOURCE CODE: UR/0271/65/000/010/B011/B011

AUTHOR: Bessonov, A. A.; Mal'ts, E. L.

TITLE: Two-channel multiplying device with silicon-diode squarers

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 10B96

REF SOURCE: Sb. tr. Leningr. mekhan. in-ta, no. 41, 1964, 69-79

TOPIC TAGS: silicon diode, computer component, arithmetic unit

ABSTRACT: The two-channel multiplying device contains a divider (DIV) for the input voltage, which is proportional to one of the factors, the principal and complementary multiplying elements (PME and CME), and the summing element (SE). In the DIV one of the cofactors is divided into two parts -- principal and complementary. The main part of the voltage is applied to the input of the PME, where it is multiplied by the second factor. In the CME the complementary part of the voltage is multipled by a factor k as well as by the second factor, after which the product is reduced by the factor k. The CME circuit contains two inverting amplifiers, a summing amplifier, and two squarers constructed in accordance with a circuit with virtually bounded diodes. The SE is an ordinary summing amplifier with two inputs, to which the products from the main and complementary multiplying elements are fed, and whose output produces the sought product. The described multiplying unit was tested by a mathematical simulation method using the MNB-1 computer. 4 illustrations. [Translation of abstract]

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UDC: 681.142.642.3/4

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EWT(d)/EWT(1)/EEC(k)-2/EWP(v)/EWP(k)/EWP(h)/EWP(1)ACC NR

SOURCE CODE: UR/0372/65/000/011/G015/G016

AUTHORS: Bessonov, A. A.; Sivakov, V. A.

AR6014870

TITIE: A self-adjusting failure indicator operating by the midpoint method

SOURCE: Ref. zh. Kibernetika, Abs. 11G104

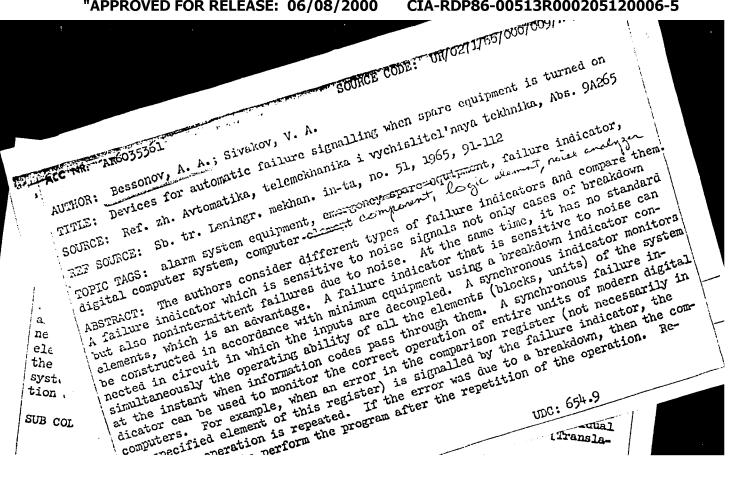
REF SOURCE: Sb. tr. Leningr. mekhan. in-ta, no. 41, 1964, 43-53

TOPIC TAGS: optimal automatic control, circuit failure, trigger circuit, data read-

ABSTRACT: An automatic self-adjusting failure indicator is described. For a system to be checked with a certain number of elements and a known a priori probability of failures for a given generalized cost of checking, the indicator possesses optimal organization of the search operations by the midpoint method. This is accomplished when a failure is detected. The indicator is designed for indication of nonintermittent failures and for reduction of the physical or generalized trigger elements of discrete systems. The operation of the indicator is examined as applied to a generalized trigger circuit consisting of five triggers. A functional circuit of the indicator and a description of its operation are given. The circuit consists of a synchronizer, a device for information readout, a device for signal comparison and command generation, and a device for error control and elimination. Schematic diagrams of the synchronizer and the other devices are given. The indicator is

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highly effective in seeking elements that have failed. It operates reliably in temperature range of -10 to +500 and at a repetition rate of information pulses 20 khz. 7 illustrations. Bibliography of 4 citations. L. Sh. Translation of abstract	the to
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KHONIN, V.A.; SUCHKOV, M.A.; BESSONOV, A.A.; Prinimala uchastiye TAVILDAROVA, T.F., doktor sel'khoz. nauk, prof.; NAZARENKO, L.I., red.; NAGIBIN, P.A., tekhn. red.

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